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(54) **ELECTROLYTE FOR ELECTROLYTIC
CAPACITOR**

(57) Abstract:

PURPOSE: To increase chemical stability within electrolyte for electrolytic capacitor of silicon oil with a function for improving withstand voltage and to obtain an aluminum electrolytic capacitor with a wide temperature range of use by adding a specific modified silicone oil to a solvent whose main solvent medium is non-protonic solvent medium.

CONSTITUTION: As an electrolyte for driving aluminum electrolytic capacitor, modified silicone oil where organic and inorganic group are introduced into siloxane bond backbone chain and one part or all of remaining group of side chain is replaced by hydrophobic group is added to the solvent medium wherein non-protonic solvent is its main solvent. For example, in the above modified silicone oil, organic and inorganic groups, which are selected from a group consisting of methylene group, phenylene group, borane group, and carborane group, are introduced into

siloxane bond backbone chain and one part or all of the remaining group of side chain are replaced by hydrophobic group which is selected from a group consisting of methyl group and phenyl group. Also, the above non-protonic solvent medium should be γ -butyrolactone, dimethylformamide, dimethylacetamide, etc.

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